

Storm Data and Unusual Weather Phenomena - May 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ILLINOIS, South				
WABASH COUNTY --- FRIENDSVILLE [38.50, -87.82]				
	05/04/12 12:30 CST		10K	Thunderstorm Wind (EG 65 kt)
	05/04/12 12:30 CST		0	Source: Trained Spotter
A couple of power poles were down.				
A short line of thunderstorms intensified while interacting with a moderately unstable air mass. The line of storms evolved into a bow echo, producing isolated wind damage and large hail as it progressed across the Wabash Valley into southwest Indiana.				
WAYNE COUNTY --- FAIRFIELD [38.38, -88.37]				
	05/04/12 18:22 CST		0	Hail (1.00 in)
	05/04/12 18:22 CST		0	Source: Law Enforcement
Thunderstorm activity developed on the leading edge of a strengthening southwesterly low level jet extending into the Mid-Mississippi and Lower Ohio Valleys. This activity was in the vicinity of a southeast to northwest oriented frontal boundary which extended from far southwest Indiana to west central Illinois. Lingering moderate instability and steep mid-level lapse rates, combined with a 40 to 50 knot northwesterly mid-level jet, supported organized storms with large hail.				
HAMILTON COUNTY --- DAHLGREN [38.20, -88.68]				
	05/05/12 01:52 CST		0	Hail (0.88 in)
	05/05/12 01:52 CST		0	Source: Trained Spotter
JEFFERSON COUNTY --- MT VERNON [38.32, -88.90]				
	05/05/12 03:15 CST		0	Hail (1.00 in)
	05/05/12 03:15 CST		0	Source: Trained Spotter
Elevated thunderstorms increased in coverage and intensity in association with warm air arriving on the leading edge of a 35-knot southwesterly low level jet. The southwesterly winds brought very unstable air, supporting isolated large hail in the strongest storms. Late at night, the storms spread east-southeast and grew into a cluster.				
FRANKLIN COUNTY --- VALIER [38.02, -89.05]				
	05/06/12 18:42 CST		0	Hail (0.75 in)
	05/06/12 18:42 CST		0	Source: Unknown
JEFFERSON COUNTY --- WALTONVILLE [38.22, -89.05]				
	05/06/12 19:20 CST		0	Hail (0.75 in)
	05/06/12 19:20 CST		0	Source: Trained Spotter
Thunderstorms producing hail up to dime size occurred in a warm and moist southerly wind flow. The warm and unstable air was ahead of a cold front that extended from central Illinois through central Missouri.				
(IL-Z077) EDWARDS, (IL-Z078) WABASH, (IL-Z082) HAMILTON, (IL-Z083) WHITE, (IL-Z085) WILLIAMSON, (IL-Z086) SALINE, (IL-Z087) GALLATIN, (IL-Z088) UNION, (IL-Z089) JOHNSON, (IL-Z090) POPE, (IL-Z091) HARDIN, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI, (IL-Z094) MASSAC				
	05/12/12 00:00 CST		0	Drought
	05/31/12 23:59 CST		0	
One of the warmest and driest Mays on record worsened the rare spring drought over southern Illinois. By the end of May, the drought was severe in the counties along the Ohio River. Moderate drought conditions existed elsewhere to the southeast of a line from Fairfield to Carbondale. At Carbondale, spring of 2012 was the second driest spring on record. Only 6.50 inches of rain fell from March through May. The month of May was the driest on record. Only 0.40 inch fell at Carbondale in May. Soils continued to dry out, and topsoil moisture deficits began to be reported. Streamflows were running below normal by the end of the month.				
JACKSON COUNTY --- 4.0 NW MURPHYSBORO [37.81, -89.38]				
	05/20/12 15:43 CST		0	Hail (1.00 in)
	05/20/12 15:43 CST		0	Source: Trained Spotter
JACKSON COUNTY --- 2.5 N MURPHYSBORO [37.81, -89.33]				

Storm Data and Unusual Weather Phenomena - May 2012

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	05/20/12 15:50 CST		0.10M	Hail (1.75 in)
	05/20/12 15:50 CST		0	Source: Public
Golf-ball size hail damaged cars, roofs, and siding.				
JEFFERSON COUNTY --- MT VERNON [38.32, -88.90]				
	05/20/12 16:13 CST		0	Hail (0.75 in)
	05/20/12 16:23 CST		0	Source: Trained Spotter
Dime-size hail lasted for ten minutes.				
JEFFERSON COUNTY --- MT VERNON [38.32, -88.90]				
	05/20/12 16:44 CST		0	Hail (0.88 in)
	05/20/12 16:44 CST		0	Source: Trained Spotter
Nickel-size hail fell on the southeast side of Mount Vernon.				
JEFFERSON COUNTY --- MT VERNON [38.32, -88.90]				
	05/20/12 16:45 CST		0	Hail (1.00 in)
	05/20/12 16:45 CST		0	Source: Trained Spotter
WAYNE COUNTY --- FAIRFIELD [38.38, -88.37]				
	05/20/12 17:21 CST		0	Hail (1.10 in)
	05/20/12 17:24 CST		0	Source: Trained Spotter
Quarter-size hail fell in Fairfield. Hail slightly bigger than quarter size fell on the south side of Fairfield.				
SALINE COUNTY --- HARRISBURG [37.73, -88.55]				
	05/20/12 17:36 CST		0	Hail (1.00 in)
	05/20/12 17:36 CST		0	Source: Trained Spotter
SALINE COUNTY --- HARRISBURG [37.73, -88.55]				
	05/20/12 17:45 CST		20K	Thunderstorm Wind (EG 52 kt)
	05/20/12 17:45 CST		0	Source: State Official
Trees and power lines were blown down.				
SALINE COUNTY --- MUDDY [37.77, -88.52]				
	05/20/12 17:55 CST		60K	Thunderstorm Wind (EG 56 kt)
	05/20/12 17:55 CST		0	Source: Law Enforcement
Trees were blown down. Some trees landed on houses and power lines. Traffic was stopped by debris. Wind-driven hail contributed to some of the damage.				
Clusters of thunderstorms developed across southern Illinois during the heat of the afternoon. The storms produced isolated damaging wind gusts and large hail. The storms formed ahead of a cold front that extended from southern Wisconsin southwest across central Missouri and eastern Oklahoma. Strong surface heating aided in the development of steep low-level lapse rates and moderate instability, with capes from 1500 to 2000 j/kg. In addition, a weak upper-level disturbance crossing southwest Missouri provided a trigger for storm initiation.				
INDIANA, Southwest				
GIBSON COUNTY --- OWENSVILLE [38.27, -87.68]				
	05/04/12 13:00 CST		0	Hail (1.00 in)
	05/04/12 13:00 CST		0	Source: Trained Spotter
GIBSON COUNTY --- 5.0 S PRINCETON [38.28, -87.57]				
	05/04/12 13:05 CST		0	Thunderstorm Wind (EG 52 kt)
	05/04/12 13:05 CST		0	Source: Trained Spotter

Storm Data and Unusual Weather Phenomena - May 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A wind gust was estimated up to 60 mph by a trained spotter.

A short line of thunderstorms intensified while interacting with a moderately unstable air mass. The line of storms evolved into a bow echo, producing isolated wind damage and large hail as it progressed across the Wabash Valley into southwest Indiana.

POSEY COUNTY --- WADESVILLE [38.10, -87.78]

05/04/12 20:30 CST			0	Hail (1.00 in)
05/04/12 20:30 CST			0	Source: Trained Spotter

VANDERBURGH COUNTY --- EVANSVILLE [37.98, -87.55]

05/04/12 20:42 CST			0	Hail (0.75 in)
05/04/12 20:42 CST			0	Source: Trained Spotter

Dime-size hail occurred on the west side of Evansville.

VANDERBURGH COUNTY --- KASSON [38.02, -87.63]

05/04/12 20:45 CST			0	Hail (1.00 in)
05/04/12 20:45 CST			0	Source: Trained Spotter

VANDERBURGH COUNTY --- EVANSVILLE [37.98, -87.55]

05/04/12 20:47 CST			0	Hail (1.00 in)
05/04/12 20:47 CST			0	Source: Trained Spotter

Quarter-size hail occurred on the west side of Evansville.

VANDERBURGH COUNTY --- EVANSVILLE [37.98, -87.55]

05/04/12 21:01 CST			0	Hail (1.25 in)
05/04/12 21:01 CST			0	Source: Trained Spotter

Half-dollar size hail fell just north of downtown Evansville.

Thunderstorm activity developed on the leading edge of a strengthening southwesterly low level jet extending into the Mid-Mississippi and Lower Ohio Valleys. This activity was in the vicinity of a southeast to northwest oriented frontal boundary which extended from far southwest Indiana to west central Illinois. Lingering moderate instability and steep mid-level lapse rates, combined with a 40 to 50 knot northwesterly mid-level jet, supported organized storms with large hail.

SPENCER COUNTY --- 6.0 NE ROCKPORT [37.94, -86.97]

05/05/12 01:01 CST			0	Hail (1.50 in)
05/05/12 01:01 CST			0	Source: Trained Spotter

Elevated thunderstorms increased in coverage and intensity in association with warm air arriving on the leading edge of a 35-knot southwesterly low level jet. The southwesterly winds brought very unstable air, supporting isolated large hail in the strongest storms. Late at night, the storms spread east-southeast and grew into a cluster.

(IN-Z081) GIBSON, (IN-Z082) PIKE, (IN-Z085) POSEY, (IN-Z086) VANDERBURGH, (IN-Z087) WARRICK, (IN-Z088) SPENCER

05/25/12 00:00 CST			0	Drought
05/31/12 23:59 CST			0	

One of the warmest and driest Mays on record worsened the rare spring drought over southwest Indiana. At Evansville, spring of 2012 was the eighth driest spring on record. Only 6.24 inches of rain fell from March through May. Only 2.29 inches fell at Evansville in May, which is 3.07 inches below normal. By the end of May, moderate drought conditions existed across southwest Indiana. Soils continued to dry out, and topsoil moisture deficits began to be reported. Streamflows were running below normal by the end of the month.

VANDERBURGH COUNTY --- EVANSVILLE [37.98, -87.55]

05/31/12 14:02 CST			0	Heavy Rain
05/31/12 14:30 CST			0	Source: Trained Spotter

Minor street flooding occurred in downtown Evansville.

SPENCER COUNTY --- ROCKPORT [37.88, -87.05]

05/31/12 14:52 CST			0	Thunderstorm Wind (MG 54 kt)
05/31/12 14:52 CST			0	Source: Trained Spotter

Storm Data and Unusual Weather Phenomena - May 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Lots of loose objects were blown around.

SPENCER COUNTY --- ROCKPORT [37.88, -87.05], 3.5 S ROCKPORT [37.83, -87.05]

05/31/12 14:54 CST	0	Hail (1.00 in)
05/31/12 14:54 CST	0	Source: SHAVE Project

Storms developed and intensified along the leading edge of a pre-frontal boundary. The pre-frontal boundary was associated with the southern extent of an upper level disturbance moving across southern Illinois. With temperatures warming into the lower to mid 80's and dew points increasing to around 60...the air mass became marginally unstable with capes to 1000 j/kg. Despite marginal instability for late May, stronger winds aloft ahead of an approaching upper level disturbance promoted development of isolated strong to severe storms.

KENTUCKY, Southwest

DAVIESS COUNTY --- ANDERSONVILLE [37.62, -87.08]

05/05/12 01:40 CST	0	Hail (0.75 in)
05/05/12 01:40 CST	0	Source: Trained Spotter

Elevated thunderstorms increased in coverage and intensity in association with warm air arriving on the leading edge of a 35-knot southwesterly low level jet. The southwesterly winds brought very unstable air, supporting isolated hail up to dime size in the strongest storms. Late at night, the storms spread east-southeast and grew into a cluster.

BALLARD COUNTY --- WICKLIFFE [36.97, -89.08]

05/05/12 20:06 CST	0	Hail (0.88 in)
05/05/12 20:06 CST	0	Source: Trained Spotter

CARLISLE COUNTY --- 2.0 W CUNNINGHAM [36.92, -88.92]

05/05/12 21:00 CST	0	Hail (0.75 in)
05/05/12 21:00 CST	0	Source: Trained Spotter

CARLISLE COUNTY --- 2.0 SSE CUNNINGHAM [36.89, -88.87]

05/05/12 21:05 CST	0	Hail (1.50 in)
05/05/12 21:05 CST	0	Source: Public

Ping-pong ball size hail was reported on Highway 307.

GRAVES COUNTY --- FANCY FARM [36.80, -88.78]

05/05/12 21:46 CST	0	Hail (1.00 in)
05/05/12 21:46 CST	0	Source: Broadcast Media

GRAVES COUNTY --- WINGO [36.65, -88.73]

05/05/12 21:48 CST	0	Hail (0.88 in)
05/05/12 21:54 CST	0	Source: Trained Spotter

GRAVES COUNTY --- MAYFIELD [36.73, -88.63]

05/05/12 21:53 CST	0	Hail (1.00 in)
05/05/12 21:53 CST	0	Source: Broadcast Media

CALLOWAY COUNTY --- 3.0 SSW LYNN GROVE [36.56, -88.45]

05/05/12 22:57 CST	0	Hail (0.88 in)
05/05/12 22:57 CST	0	Source: Trained Spotter

Scattered thunderstorms formed along a warm front that extended from central Missouri into western Kentucky. A few of these storms produced large hail.

(KY-Z001) FULTON, (KY-Z002) HICKMAN, (KY-Z003) CARLISLE, (KY-Z004) BALLARD, (KY-Z005) MCCracken, (KY-Z006) GRAVES, (KY-Z007) LIVINGSTON, (KY-Z008) MARSHALL, (KY-Z009) CALLOWAY, (KY-Z010) CRITTENDEN, (KY-Z011) LYON, (KY-Z012) TRIGG, (KY-Z013) CALDWELL, (KY-Z014) UNION, (KY-Z015) WEBSTER, (KY-Z016) HOPKINS, (KY-Z017) CHRISTIAN, (KY-Z018) HENDERSON

Storm Data and Unusual Weather Phenomena - May 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/12/12 00:00 CST		0	Drought
	05/31/12 23:59 CST		0	

One of the warmest and driest Mays on record worsened the rare spring drought over western Kentucky. At Paducah, spring of 2012 was the driest spring on record. Only 4.95 inches of rain fell from March through May. The month of May was the driest on record. Only 0.39 inch fell at Paducah in May. By the end of May, severe drought conditions existed across most of western Kentucky. The exception was from Owensboro southward across Greenville to Elkton, where the drought did not officially start until June. Soils continued to dry out, and topsoil moisture deficits began to be reported. Outdoor burning was banned in Crittenden and Henderson Counties. Streamflows were running below normal by the end of the month. Flows in the Tradewater River (at the Olney river gage) and Massac Creek (near Paducah) reached record lows for this time of year. Lake George, which is the drinking water supply for Marion, was five feet below normal.

CALLOWAY COUNTY --- 1.5 WNW MURRAY ARPT [36.68, -88.40], 0.3 SSW PENNY [36.65, -88.35]				
	05/20/12 17:50 CST		5K	Thunderstorm Wind (EG 61 kt)
	05/20/12 18:00 CST		1K	Source: Emergency Manager

About 100 tree limbs from two to eight inches in diameter were broken off. A few large trees were blown over. One house lost several shingles. A well house cover was blown away. Three storm windows were blown out. Corn one to two feet tall was blown over.

CALLOWAY COUNTY --- MURRAY ARPT [36.67, -88.37]				
	05/20/12 17:50 CST		0	Hail (0.75 in)
	05/20/12 18:00 CST		0	Source: Emergency Manager

Clusters of thunderstorms developed across western Kentucky during the heat of the afternoon. The storms produced isolated damaging wind gusts in Calloway County. The storms formed ahead of a cold front that extended from southern Wisconsin southwest across central Missouri and eastern Oklahoma. Strong surface heating aided in the development of steep low-level lapse rates and moderate instability, with capes from 1500 to 2000 J/kg. In addition, a weak upper-level disturbance crossing southwest Missouri provided a trigger for storm initiation.

CHRISTIAN COUNTY --- 0.7 N HENSLEYTOWN [36.68, -87.40]				
	05/21/12 16:08 CST		0	Hail (1.25 in)
	05/21/12 16:08 CST		0	Source: Law Enforcement

The hail was reported on Interstate 24 at mile marker 89, which is at the junction of Highway 115.

MUHLENBERG COUNTY --- BREMEN [37.37, -87.22]				
	05/21/12 16:10 CST		0	Heavy Rain
	05/21/12 16:10 CST		0	Source: Law Enforcement

Water was over a state road. The state highway department was called to assess the situation.

Isolated severe storms occurred along the back edge of a warm and humid air mass. The storms formed along and just ahead of an upper level disturbance as it exited western Kentucky.

CALDWELL COUNTY --- 0.3 NNE BLACK HAWK [36.97, -87.87]				
	05/29/12 04:29 CST		0	Hail (0.75 in)
	05/29/12 04:29 CST		0	Source: Law Enforcement

In addition to the hail, several tree limbs were broken by winds near 55 mph. The event occurred on Highway 139 east of Interstate 24.

CHRISTIAN COUNTY --- HOPKINSVILLE [36.85, -87.48]				
	05/29/12 07:32 CST		0	Hail (1.00 in)
	05/29/12 07:32 CST		0	Source: Storm Chaser

Quarter-size hail fell on the south side of the city.

Isolated severe storms occurred ahead of a weak cold front as it crossed the Lower Ohio River Valley. The storms were aided by a 500 mb shortwave trough moving eastward across the Ozark Mountains of Missouri and Arkansas.

LYON COUNTY --- SARATOGA [37.05, -88.00]				
	05/29/12 14:12 CST		0	Hail (0.75 in)
	05/29/12 14:12 CST		0	Source: Trained Spotter

The hail occurred near the junction of Highways 730 and 818.

Storm Data and Unusual Weather Phenomena - May 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
TRIGG COUNTY --- 3.7 WSW WALLONIA [36.93, -87.83]				
	05/29/12 14:33 CST		5K	Thunderstorm Wind (EG 52 kt)
	05/29/12 14:33 CST		0	Source: Trained Spotter
Trees were blown down near Interstate 24 in northern Trigg County.				
CHRISTIAN COUNTY --- HOPKINSVILLE [36.85, -87.48]				
	05/29/12 14:47 CST		0	Hail (1.00 in)
	05/29/12 14:47 CST		0	Source: Trained Spotter
TODD COUNTY --- 3.0 S TRENTON [36.68, -87.27]				
	05/29/12 15:33 CST		10K	Thunderstorm Wind (EG 61 kt)
	05/29/12 15:33 CST		0	Source: Trained Spotter
A few trees about a foot in diameter were blown down. Power lines and numerous large limbs were down. Corn in several cornfields was blown over at a 45 degree angle.				
CHRISTIAN COUNTY --- 0.8 NNW HENSLEYTOWN [36.68, -87.40]				
	05/29/12 15:35 CST		0	Thunderstorm Wind (MG 63 kt)
	05/29/12 15:35 CST		0	Source: Trained Spotter
A wind gust to 72 mph was measured at exit 89 on Interstate 24.				
CHRISTIAN COUNTY --- PEMBROKE [36.78, -87.35]				
	05/29/12 15:35 CST		0	Thunderstorm Wind (MG 51 kt)
	05/29/12 15:35 CST		0	Source: Trained Spotter
A short line of thunderstorms developed over western Kentucky along the western edge of moderate instability, where mixed layer capes were estimated from 1000 to 1500 j/kg. The storms were located along the axis of a mid-level shortwave. In addition, an axis of steep low-level lapse rates extended northward into western Kentucky, where surface dew points were approaching 70 degrees. This moisture along with moderate wind shear supported isolated damaging wind and hail events.				
DAVIESS COUNTY --- 0.7 W YELVINGTON [37.85, -86.98], 2.7 NNE YELVINGTON [37.89, -86.95]				
	05/31/12 15:00 CST		0	Hail (1.75 in)
	05/31/12 15:05 CST		0	Source: SHAVE Project
WEBSTER COUNTY --- 2.0 S DIXON [37.49, -87.70]				
	05/31/12 15:11 CST		0	Hail (0.75 in)
	05/31/12 15:11 CST		0	Source: Trained Spotter
DAVIESS COUNTY --- 0.3 NE GATEWOOD [37.83, -86.87]				
	05/31/12 15:13 CST		0	Hail (1.00 in)
	05/31/12 15:13 CST		0	Source: SHAVE Project
GRAVES COUNTY --- 2.0 S MAYFIELD [36.70, -88.63]				
	05/31/12 15:44 CST		0	Hail (0.75 in)
	05/31/12 15:44 CST		0	Source: Trained Spotter
GRAVES COUNTY --- 2.0 S MAYFIELD [36.70, -88.63]				
	05/31/12 15:44 CST		5K	Thunderstorm Wind (EG 56 kt)
	05/31/12 15:44 CST		0	Source: Trained Spotter
Trees were blown down.				
DAVIESS COUNTY --- 2.5 ENE YELVINGTON [37.86, -86.93]				
	05/31/12 15:49 CST		4K	Thunderstorm Wind (EG 56 kt)
	05/31/12 15:49 CST		0	Source: SHAVE Project
Siding was blown off a house.				

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Storms developed and intensified along the leading edge of a pre-frontal boundary. The pre-frontal boundary was associated with the southern extent of an upper level disturbance moving across southern Illinois. With temperatures warming into the lower to mid 80's and dew points increasing to around 60...the air mass became marginally unstable with capes to 1000 j/kg. Despite marginal instability for late May, stronger winds aloft ahead of an approaching upper level disturbance promoted development of isolated strong to severe storms.

MISSOURI, Southeast

(MO-Z086) BOLLINGER, (MO-Z087) CAPE GIRARDEAU, (MO-Z100) WAYNE, (MO-Z107) CARTER, (MO-Z108) RIPLEY, (MO-Z109) BUTLER, (MO-Z110) STODDARD, (MO-Z111) SCOTT, (MO-Z112) MISSISSIPPI, (MO-Z114) NEW MADRID

05/18/12 00:00 CST	0	Drought
05/31/12 23:59 CST	0	

One of the warmest and driest Mays on record worsened the rare spring drought over southeast Missouri. At Cape Girardeau, spring of 2012 was the driest spring on record. Only 5.25 inches of rain fell from March through May. The month of May was the second driest on record. Only 0.79 inch fell at Cape Girardeau in May. By the end of May, the drought was severe in the extreme southeast Missouri counties of New Madrid and Mississippi. Moderate drought conditions existed elsewhere to the south of the Perryville area. Soils continued to dry out, and topsoil moisture deficits began to be reported. Pasture land rapidly deteriorated. Streamflows were running below normal by the end of the month.

SCOTT COUNTY --- 1.4 N DIEHLSTADT [36.99, -89.43]

05/20/12 15:50 CST	0	Hail (0.75 in)
05/20/12 16:00 CST	0	Source: Trained Spotter

Hail fell for at least 10 minutes.

An isolated severe thunderstorm developed in an unstable air mass across southeast Missouri.

NEW MADRID COUNTY --- GIDEON [36.47, -89.92]

05/31/12 13:42 CST	0	Hail (1.00 in)
05/31/12 13:42 CST	0	Source: Trained Spotter

NEW MADRID COUNTY --- PORTAGEVILLE [36.43, -89.70]

05/31/12 14:02 CST	0	Hail (1.00 in)
05/31/12 14:02 CST	0	Source: Emergency Manager

Storms developed and intensified along the leading edge of a pre-frontal boundary. The pre-frontal boundary was associated with the southern extent of an upper level disturbance moving across southern Illinois. With temperatures warming into the lower to mid 80's and dew points increasing to around 60...the air mass became marginally unstable with capes to 1000 j/kg. Despite marginal instability for late May, stronger winds aloft ahead of an approaching upper level disturbance promoted development of isolated strong to severe storms.